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What is claimed is:

1 1. A process carried out in a usage measuring server to provide access to data, comprising the steps
2 of:

3 receiving via an internet session a log in communication from a user desiring access
4 to data and using the user name and password in said log in communication to authenticate said
5 user;

6 sending a message over the internet to the user's browser which will display on the
7 user's computer a page with links or commands that can be activated to select which entity
8 represented by a data entry in a data structure in said usage measuring server and which usage
9 data and/or metric data and/or CSU data the user would like to access;

10 receiving a message over the internet indicating which data the user
11 would like to access;

12 locating the data entry that corresponds to the user for which data is to be accessed
13 and following pointers from said data entry to the desired data to be accessed; and

14 sending one or more messages to said user including the data requested by the user
15 so as to cause the requested data to be displayed on said user's computer.

1 2. The process of claim 1 where all messages back and forth between said user and said
2 usage measuring server are in a secure HTTPS protocol.

1 3. The process of claim 1 further comprising the step of checking configuration data to verify
2 that the authenticated user is allowed to have access to the data she requested to access, and
3 blocking access if said configuration data indicates that the user has no access privileges to the data.

1 4. A process carried out in a usage measuring server to provide access to data, comprising
2 the steps of:

3 1) receiving via an internet session a log in communication from a user desiring
4 access to data and using the user name and password in said log in communication to
5 authenticate said user;

6 2) sending a secure message over the internet to the user's browser which will
7 display on the user's computer a page with links or commands that can be activated to select
8 which entity represented by a data entry in a data structure in said usage measuring server and

[illegible]

1 5. The process of claim 4 wherein step 6 comprises sending all the data in the tree structure
2 stemming from the data entity designated in step 3 in one or more secure messages for display on
3 the user's computer.

1 7. A server apparatus programmed to:
2 receive via an internet session a log in communication from a user desiring access to
3 data and using the user name and password in said log in communication to authenticate said
4 user;

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1 8. The apparatus of claim 3 wherein said server apparatus of programmed to exchange
2 messages with said user using a secure protocol such as HTTPS.

1 9. The apparatus of claim 7 wherein said server is further programmed to check
2 configuration data to verify that the authenticated user is allowed to have access to the data to which
3 she requested access, and blocking access if said configuration data indicates that the user has no
4 access privileges to the data.

1 10. A server computer programmed with program means for:

2 1) receiving via an internet session a log in communication from a user desiring
3 access to data and using the user name and password in said log in communication to
4 authenticate said user;

5 2) sending a secure message over the internet to the user's browser which will
6 display on the user's computer a page with links or commands that can be activated to select
7 which entity represented by a data entry in a data structure in said usage measuring server and
8 which usage data and/or metric data and/or CSU data the user would like to access;

9 3) receiving a secure message over the internet indicating which data of which entity
10 in said data structure the user would like to access;

11 4) checking configuration data to verify whether or not this user has access privileges
12 to the data the user requested to access, and, if not, sending a message to said user indicating
13 no access;

14 5) if the user does have access privileges to the requested data, locating the data
15 entry that corresponds to the user for which data is to be accessed and following pointers from
16 said data entry to the desired data to be accessed including all data in a tree structure of data
17 entries stemming from the data entry representing the entity designated in step 3; and

18 6) sending one or more messages to said user including at least the data requested
19 by the user so as to cause the requested data to be displayed on said user's computer.

1 11. The apparatus of claim 10 further comprising program means for sending all the data in
2 the tree structure stemming from the data entity designated in function 3 in one or more secure
3 messages for display on the user's computer.

1 12. A process for providing web access to data in a data structure representing a distribution
2 structure for resources licensed on a usage basis, comprising the steps of:
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3 1) receiving a log in communication from a user wishing to access data in the data
4 structure which includes a user name and password or other information from which the user can
5 be authenticated;

6 2) authenticating said user;

7 3) sending a secure message to said user's browser to cause it to display a page
8 with links or commands that can be invoked to ask the user what she wants to do;

9 4) receiving one or more secure messages from said user indicating the user wishes
10 to access data of a particular entity represented by a data entry in said data structure;

11 5) locating a data entry in said data structure which represents the entity whose data
12 the user wishes to access and following pointers from that data entry to other data entries at a
13 first level down in a tree structure of data stemming from the data entry representing said entity;

14 6) generating a link for every data entry found in step 5;

15 7) sending the links generated in step 6 back to the user in one or more secure
16 messages which will cause said user's browser to display said links;

17 8) receiving a secure message indicating which links the user selected indicating
18 which data the user wishes to access and accessing the required data and sending it in one or
19 more secure messages to the user so as to cause the user's browser to display the requested
20 data;

21 9) sending one or more secure messages to said user which will cause the user's
22 browser to display a message querying whether the user wishes to see any more data in said
23 tree structure below the level of the data she just accessed;

24 10) if the user wants to see more data, receiving one or more messages so indicating
25 and repeating steps 4 through 10 until the data in the tree structure is exhausted or the user stops
26 requesting access to data.

1 13. The process of claim 12 where step 7 includes the step of sending descriptive data
2 encoding text indicating what the data entries found in step 5 are and/or what they contain.

1 14. A process for providing web access to data in a data structure representing a distribution
2 structure for resources licensed on a usage basis, comprising the steps of:

3 1) receiving a log in communication from a user wishing to access data in the data
4 structure which includes a user name and password or other information from which the user can
5 be authenticated;

6 2) authenticating said user;

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7 3) sending a secure HTTPS message to said user's browser to cause it to display a
8 page with links or commands that can be invoked to ask the user what she wants to do;

9 4) receiving one or more secure HTTPS messages from said user indicating the user
10 wishes to access data of a particular entity represented by a data entry in said data structure;

11 5) checking configuration data to verify whether said user has access privileges to
12 the requested data, and, if not, sending a message to said user's browser indicating access is
13 denied;

14 6) if said user has access privileges to the requested data, locating a data entry in
15 said data structure which represents the entity whose data the user wishes to access and
16 following pointers from that data entry to other data entries at a first level down in a tree structure
17 of data stemming from the data entry representing said entity;

18 7) generating a link for every data entry found in step 6;

19 8) sending the links generated in step 7 back to the user in one or more secure
20 messages which will cause said user's browser to display said links;

21 9) receiving a secure message indicating which links the user selected indicating
22 which data the user wishes to access and accessing the required data and sending it in one or
23 more secure messages to the user so as to cause the user's browser to display the requested
24 data;

25 10) sending one or more secure messages to said user which will cause the user's
26 browser to display a message querying whether the user wishes to see any more data in said
27 tree structure below the level of the data she just accessed;

28 11) if the user wants to see more data, receiving one or more messages so indicating
29 and repeating steps 4 through 11 until the data in the tree structure is exhausted or the user stops
30 requesting access to data.

1 15. A server programmed to:

2 1) receive a log in communication from a user wishing to access data in the data
3 structure which includes a user name and password or other information from which the user can
4 be authenticated;

5 2) authenticate said user;

6 3) send a secure HTTPS message to said user's browser to cause it to display a
7 page with links or commands that can be invoked to ask the user what she wants to do;

8 4) receive one or more secure HTTPS messages from said user indicating the user
9 wishes to access data of a particular entity represented by a data entry in said data structure;

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- 10 5) check configuration data to verify whether said user has access privileges to the
11 requested data, and, if not, sending a message to said user's browser indicating access is
12 denied;
- 13 6) if said user has access privileges to the requested data, locate a data entry in said
14 data structure which represents the entity whose data the user wishes to access and following
15 pointers from that data entry to other data entries at a first level down in a tree structure of data
16 stemming from the data entry representing said entity;
- 17 7) generate a link for every data entry found in step 6;
- 18 8) send the links generated in step 7 back to the user in one or more secure
19 messages which will cause said user's browser to display said links;
- 20 9) receive a secure message indicating which links the user selected indicating which
21 data the user wishes to access and accessing the required data and sending it in one or more
22 secure messages to the user so as to cause the user's browser to display the requested data;
- 23 10) send one or more secure messages to said user which will cause the user's
24 browser to display a message querying whether the user wishes to see any more data in said
25 tree structure below the level of the data she just accessed;
- 26 11) if the user wants to see more data, receive one or more messages so indicating
27 and repeat steps 4 through 11 until the data in the tree structure is exhausted or the user stops
28 requesting access to data.